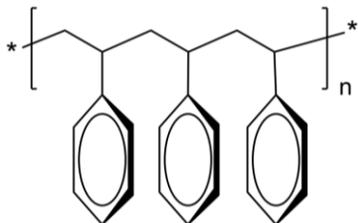


Sample Name: Polystyrene-Isotactic

Sample #: P42855C-Siso

Structure:



Composition:

Mn × 103	PDI
75.0	2.7

Synthesis Procedure:

The polymer is prepared by anionic polymerization process in Hexane using LiOH as additive. Fractionation with Methyl ethyl ketone to separate iso fractions.

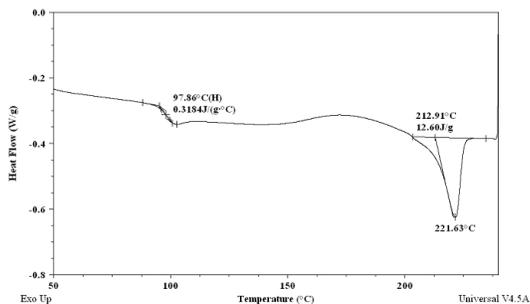
Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF.

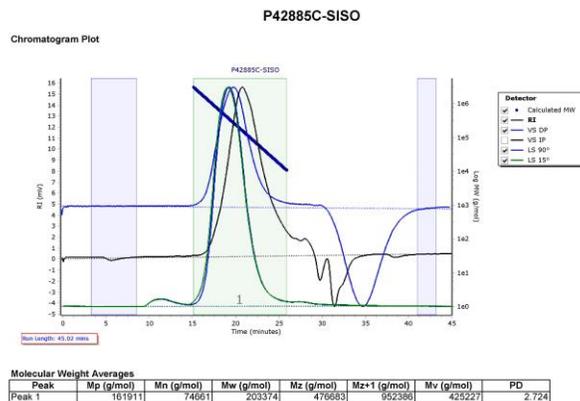
Polymer as such is not soluble in THF or in Toluene. Polymer was annealed at T_g and cool it to -20 oC rapidly. Polymer now soluble in THF or in Toluene.

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

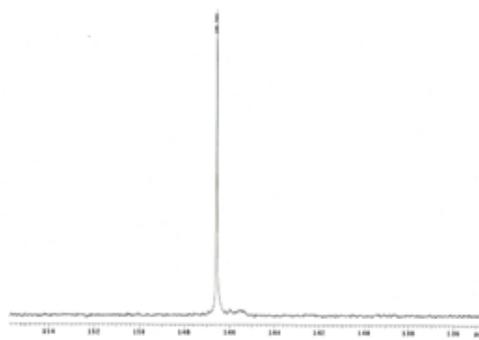
Heating at 10C/min and cooling at 10C/min. This is the 3rd cycle of heating at 10C/min
 Sample: P42855 Siso DSC File: C:\TA\Data\DSC\Homopolymers\SIP42855 -Siso.001



SEC elugram of Homopolymer:



¹³C NMR spectrum of the Sample:



DSC thermogram of the product:

T_g of polystyrene as function of molecular weight

